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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533,350	11/07/2005	Arvind N Jina	ADCI-010	7209
24353 7590 BOZICEVIC, FIELD & FRANCIS LLP 1900 UNIVERSITY AVENUE			EXAMINER	
			NGUYEN, BAO THUY L	
SUITE 200 EAST PALO	ALTO, CA 94303		ART UNIT	PAPER NUMBER
	,		1641	
			MAIL DATE	DELIVERY MODE
			03/31/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/533 350 JINA, ARVIND N Office Action Summary Examiner Art Unit Bao-Thuy L. Nguyen 1641 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 05 February 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 40-52 and 91 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 40-52 and 91 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

U.S. Patent and Trademark Offic PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 8/26/05

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of claims 40-52 and 91 in the reply filed on 05 February 2008 is acknowledged. The traversal is on the ground(s) that the restriction requirement is not in compliance with MPEP 803. Mainly, if search and examination of an entire application can be made without serious burden, the Office must examine the entire application on the merits even though the entire application include claims to independent or distinct inventions. This is not found persuasive because the restriction requirement is under 35 USC 121 and 372 (PCT Rule 13.1). Specifically the claims lack a single general inventive concept.

The requirement is still deemed proper and is therefore made FINAL.

2. Claims 1-39, 53-90 and 92 have been canceled.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made. Application/Control Number: 10/533,350

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The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.
- Claims 40-52 and 91 rejected under 35 U.S.C. 103(a) as being unpatentable over Law (US 6,562,581) in view of Ullman (US 4,857,453) and Zin (US 6,534,324).

Law (6,562,581) discloses a flow-through cell for detecting glycated hemoglobin from a blood sample. Law teaches applying a blood sample to a sample well, lysing the blood sample with a lysing agent and a buffer, transporting the mixture to a capture zone, binding the glycated hemoglobin with a capture agent, adding a developing solution containing a peroxide and a dye to enable detection of the capture glycated hemoglobin. See column 8, example 5.

Law differs from the instant claims in failing to teach a membrane comprising an elution area, a sample addition area, a lysing area and a capture area.

However, devices with the above zones are well known and conventional in the art. Ullman, for example, discloses a device comprising a buffer capsule connected to a sample addition area, a labeling zone and one or more immunosorbing capture zones. See column 22 and figure 1. Ullman teaches that the buffer capsules contain solvent for the sample including detergent, buffers such as borate, phosphate, tris, etc. See column

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14, lines 43-68. The capture agents in the immunosorbing zones are specific binding members including antibodies, biotin, avidin, receptors, DNA, etc. See column 6, lines 1-23.

And Zin discloses an assay strip comprising a sample addition zone, a conjugate zone, and buffer zone, a capture zone and an absorbent sink at the end. Zin teaches that the buffer zones carries buffers appropriate for the specific assay and can be adapted to the individual analytes. See column 5, lines 50-65. Buffers including Tris, Tween or PBS.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device taught by Ullman, for example, to detect glycated and non-glycated hemoglobin such as taught by Law. The detection of these hemoglobin would necessitate lysis of the blood sample, and at least one of the buffer capsule taught by Ullman would have the obvious choice for the lysing agent taught by Law. The second buffer capsule would have been expected to contain the elution buffer and a skilled artisan would have had a reasonable expectation of success in choosing the appropriate capture agents for glycated and non-glycated hemoglobin since such agents are well known in the art as demonstrated by Law. The reference of Zin demonstrates that it is well known in the test strip art to place buffer zones in various locations along the test strip according to the desired sequence of assay.

With respect to claim 41, Law, Ullman and Zin all teach membranes having capillary functions.

With respect to claim 42, Law teaches lysing agent. And Ullman teaches buffer solution containing detergents capable of lysing RBC. See column 14, lines 65-68.

With respect to claims 43 and 52, Ullman teaches separate buffer capsules containing various buffers. See column 14, lines 34-68.

With respect to claims 44 and 45, Law teaches chemical agents for capturing glycated hemoglobin. See column 2, lines 59-67.

With respect to claims 46-47, Ullman teaches the detection multiple analytes using separate immunosorbing zones. See column 11, lines 43-50.

With respect to claim 48, Law discloses that it is conventional in the art to measure both glycated and non-glycated hemoglobin. See column 2.

With respect to claim 91, Zin discloses a buffer zone disposed downstream of the sample addition zone.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 5,945,345

US 6.812.038

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao-Thuy L. Neuven whose telephone number is (571) Application/Control Number: 10/533,350 Art Unit: 1641

272-0824. The examiner can normally be reached on Monday -- Thursday from 9:00 a.m. - 3:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long V. Le can be reached on (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Bao-Thuy L. Nguyen/ Primary Examiner Art Unit 1641